#### Background

In Central Nebraska, a group of producers located primarily in Blaine and northern Custer County provided information on a representative 600 cow herd, a herd size typical for their area. The cattle industry in Custer County and the surrounding area is significant to the economy. Cattle producers with this size herd primarily focus on cattle and hay as their main enterprises. Hay utilized for the cow-calf operation is typically all raised. Some producers also raise crops and noted that off-farm income to supplement their family living is important.

#### **Livestock Management Practices**

Typical calving time for cow herds in this area is February through March with heifers calving in the March timeframe primarily. It was noted that 12% of cows are culled per year with replacement heifers being raised from the herd. A typical open rate on the cows is 8%.

Weaning rates per exposed cow typically run 93% with weaning weights averaging 500 pounds. There is generally a 50-to-75-pound difference in male versus female weaning weights with the females being lighter in weight. Backgrounding calves is normal for 60 to 90 days after weaning with calves sold around the first of January (depending on income tax planning for the year). A marketing expense adjustment is added to the backgrounding calves' budget to account for any expense difference from that of the weaned calves.

Chart 1: Flowchart provides production numbers for typical 600 head cow-calf operation in central Nebraska.

#### **Pasture and Feed**

In this area of the state, approximately 50% of pasture utilized is on owned ground and 50% of pasture utilized is rented. Current pasture rental rates in the area are running near \$60 per acre with an eight to ten acre per pair stocking rate. Cows are on pasture for 5 months, on corn stalks from November to February (80% is rented stalk ground) at typically \$15 to \$20 /month, with 20% owned crop residue ground.

During March and April, hay is fed to the cow herd. Yearling heifers are fed in the dry lot from November to April (6 months). In May, heifers are typically artificially inseminated, then go on pasture from June through October. Bred heifers are generally separated from the bred cows to their own pasture and supplemented with hay. Bulls are out on pasture from June thru October and then fed in the dry lot 4 to 6 months.

Feed and hay costs produced on owned ground, along with pasture and stalk rent expenses are considered as separate enterprises from the cow calf enterprise. Therefore, in this representative budget, feed, hay, and stalks are included as cash feed expenses valued at current market rate. Individual producers using the budget template can indicate an opportunity cost and real estate taxes for their land use in lieu of cash rental or purchase expenses. In addition, other annual maintenance costs of pasture or owned ground should be considered as well.

#### Machinery, Equipment and Facilities

Basic equipment utilized for the representative cowcalf operation includes two tractors, one with a loader, a side by side or 4-wheeler, a pickup, stock trailer, feed wagon, portable chutes, and cattle panels. Machinery and equipment value is estimated to total on average \$150K. Facilities typically include a calving barn and corrals and approximately 8 to 10 miles of barbed wire fence.

#### **Non-Feed Input Costs**

Non-feed input costs can be entered into the budget on a "per animal" or a whole herd basis. In this representative budget, these costs were entered on a per animal basis and include labor, fuel, veterinary and medical cost, and marketing costs. Artificial insemination (AI) expense was entered in total as those expenses are generally related to breeding the raised replacement heifers.

Labor, fuel, and veterinary and medical costs are allocated to each animal category based on net increase in value during the production year. Marketing costs are broken down by each animal category of the herd and allocated accordingly. For example, cull bull marketing of \$25 per animal is included on the bull budget page and the system budget which is a summary of all projected revenue and expenses at the end of the budget report. The cost of direct marketing and the costs per head to sell thru a nearby sale barn can vary tremendously. Marketing expenses include the sales commission, transportation, and other costs to market. In this budget, both a commission and charge for hauling the cattle to sale are figured into marketing expense. A marketing expense adjustment is added to the backgrounding calves' budget to account for any expense difference from that of the weaned calves.

#### Other Depreciation, Interest, and Overhead Costs

Depreciation for purchased replacement heifers and bulls is figured in the difference of their cost of purchase to their sale value when culled. These figures are included in the breeding and bull budget pages and are carried over into the total system budget page as income when sold and expense when purchased. Depreciation expense for tax purposes would be handled differently, in consultation with a tax accountant. Opportunity interest of 3 percent is figured on the value of investment total in the livestock herd. This is an economic cost reflecting what rate of return could

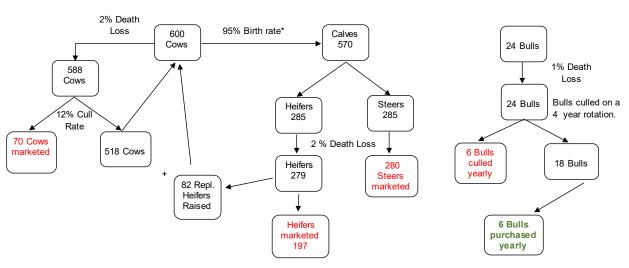
be earned if the herd were sold and the money invested in its most profitable alternative use.

Overhead expenses include the farm's annual insurance premium and professional fees. Real estate value and taxes are not included in this example because, as stated previously, rental costs are paid for all hay, stalks, and pasture. Therefore, this budget assumes that no ground utilized for the cow calf operation is owned by the cow calf enterprise. Real estate tax on the facilities is included in the budget and property tax is included in other expenses for the vehicles and equipment. An annual management charge and other expenses that pertain to the cow calf herd may be entered but are left blank in this representative budget.

#### Prepared by:

Glennis McClure, Extension Educator – Ag Economics Troy Walz, Beef Systems Extension Educator Randy Saner, Beef Systems Extension Educator T.L. Meyer, Beef Systems Extension Educator Brent Plugge, Beef Systems Extension Educator Erin Laborie, Beef Systems Extension Educator





#### Chart 1: Cow-calf production flowchart, 600 cow herd - Central Nebraska

\* approx. 93% weaning rate per exposed cow

600 Head Cow Herd Budget Worksheet pages attached include:

Bull budget Replacement budget Breeding herd cash budget Backgrounding calf budgets Cow-calf System Budget report (summarizes all budget information)



# **Cow Herd System Budget**

Glennis McClure, Extension Educator /Farm & Ranch Management Analyst

This budgeting workbook is designed to provide analysis of the components of a beef production system. This template provides an example of a 600 head cow herd based in central Nebraska. It may be modified for current values, various herd sizes, management practices, and locations.

Budget template designed by Roger Wilson, retired Farm & Ranch Management Analyst



Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska - Lincoln cooperating with the Counties and the United States Department of Agriculture. University of Nebraska - Lincoln Extension programs abide with the nondiscrimination policies of the University of Nebraska - Lincoln and the United States Department of Agriculture.

© The Board of Regents of the University of Nebraska on behalf of the University of Nebraska - Lincoln Extension. All rights

## **Budget Inputs**

Updated September, 2021

Bre	eding Herd					
	Herd size	It is assumed that herd size rema	ins stationary so	600	Cows	
	Average Cow Value	replacements will equal cow culls		1,400	\$ / head	
	Cows Culled per Year	few replacements are purchased,	the worksheet	70	Cows	
ഗ	Cow Deaths per year	automatically retains heifers.		12	head	
Females	Number of Replacements Nee	ded		82		
ů.	Estimated Weaning Rate			93	percent	
	Extra Heifers Retained for Bree	eding that Will Not Be Used	as Replacements	0	head	
bu	Culled Replacement Heifer We	eight When Sold			pounds	
edi	Culled Replacement Heifer Se	lling Price			\$ / cwt	
Breeding	Cost of Marketing Culled Repla	acement Heifers			\$ / head	
m	Replacement Females Purcha	sed	(<=82)		head	
	Replacement Female Cost (if a	applicable)			\$ / head	
	Cow Cull Weight			1,350	pounds	
	Non-Fed Cull Cow Price			64	\$ / cwt	
	Bulls Needed			24	Bull(s)	Any Al use?
	Bull Purchase Price			3,000	\$ / head	
Bulls	Bull use (years)		(<10)	4	years	
Bu	Bull Death Loss Rate			1%		
	Cull Bull Price			85	\$ / cwt	
	Cull Bull Weight			1,700	pounds	
	Calves Weaned		(<=558)	558	head/year	
es	Steer Weaning Weight			525		
Calves	Heifer Weaning Weight			475	pounds	
ö	Weaned Steer Price		(>=10)	180	\$ / cwt	
	Weaned Heifer Price		(>=10)	160	\$ / cwt	

Bac	Background Calves						
	Days Fed	75	days				
	Death Loss (0-100)	2	percent				
rs	Retained after Weaning (<=279)	279	head				
Steel	End Weight	675	pounds				
st	Market Price (>=10)	165	\$ per cwt				
rs	Retained after Weaning (<=197)	197	head				
Heifer	End Weight	610	pounds				
He	Market Price (>=10)	158	\$ per cwt				

Sto	cker	
	Days Fed	days
	Death Loss (0-100)	percent
rs	Retained for Grazing (<=273)	head
Steers	End Weight	pounds
St	Market Price (>=10)	\$ per cwt
ſS	Retained for Grazing (<=193)	head
Heifers	End Weight	pounds
He	Market Price (>=10)	\$ per cwt

Feedlot		
Days Fed		days
Death Loss	(0-100)	percent

	Placed on Feed	(<=0)	head
Steel	End Weight		pounds
St	Market Price	(>=10)	\$ per cwt
rs	Placed on Feed	(<=0)	head
ife	End Weight		pounds
He	Market Price	(>=10)	\$ per cwt

Fed	Cull Cow		
	Days Fed		days
	Death Loss (0-100)	0	percent
	Placed on Feed (<=70)		head
	End Weight		pounds
	Market Price (>=10)		\$ per cwt

Feed					
			Fed Unit		
	Price per Unit	Priced Unit	(tons, lbs.	Fed Unit per	
Name	Purchased	(tons, lbs. etc)	etc)	Priced Unit	As Fed Price
Pasture	300.00	5 months	day	150	2.00
Prairie Hay	130.00	ton	lbs	2000	0.07
Alfalfa	150.00	ton	lbs	2000	0.08
DDG Cubes	300.00	ton	lbs	2000	0.15
Salt and Mineral	900.00	ton	ounce	32000	0.03
Corn Stalks	17.50	month	day	30	0.58
Dried Rolled Corn	5.40	bu	lbs	56	0.10

Non-Feed Input Costs			Allocation Percentage			
Name	Cost per Year	Is This Cost Per Animal or for All Animals?	Breeding Herd	Background Calves (Optional)	Stocker (Optional)	Feedlot (Optional)
Labor	20.00	per animal				
Fuel	20.00	per animal				
Veterinary and Medical	20.00	per animal				
Cull Cow Marketing	25.00	per animal				
Cull Bull Marketing	25.00	per animal				
Cull Replacement Marketing	25.00	per animal				
Weaned Calf Marketing	20.00	per animal				
Backgrounded Calf Marketing -Adj	25.00	per animal				
Stocker Marketing	-	per animal				
Feedlot Marketing	-	per animal				
AI Expense \$40 per new heifers	3,280.00	all animals	100%			

Depreciable Input Costs

Allocat

Name	Current Value	Future Value	Future Value Horizon	Annual Repairs	Breeding Herd (Optional)	Weaned Calf Wintering (Optional)
Barn /fencing	100,000	50,000	20	2,000	100%	
Machinery (Livestock)	150,000	60,000	10	2,000	100%	
Vehicles	35,000	15,000	7	1,200	100%	

Interest	
Operations Interest Rate	6%
Opportunity Rate	3%

Overhead Costs				Allocati	ion Percentag
	Amount		Breeding Herd (Optional)	Weaned Calf Wintering (Optional)	Stocker (Optional)
Real Estate Value*					
Real Estate Tax*		per year			
Annual Insurance Premium	3,000	per year			
Professional Fees	1,500	per year			
Annual Management Charge		per year			
Other		per year			

Bull Budget	(24 Bulls)	)			
Income					Herd Total
Cull Bull Sales	<u>Amount</u> 5.94	head @	<u>Weight</u> \$ 1,700.00	<b>Price</b> \$ 85.00	<u>Total</u> 8,583
				Gross Income	8,583
Variable Costs					Herd Total
Breeding Costs	Number		Price		Total
Bulls	6.00			per head	18,000
			· · · · · ·	•	- ,
	Amount		Per Animal		
Bull Feed	<u>per Year</u>		<u>or Total</u>	<u>Price</u>	Total
Prairie Hay	5250	lbs	per animal	@ 0.07 per lbs	8,190
Pasture	150	day	per animal	@ 2.00 per day	7,200
Salt and Mineral	1095	ounce	per animal	@ 0.03 per ounce	739
DDG Cubes	600	lbs	per animal	@ 0.15 per lbs	2,160
Dried Rolled Corn	700	lbs	per animal	@ 0.10 per lbs	1,620
				_ /	
				Total Feed	19,909
Other Variables			Allocation		Total
Cull Bull Marketing		25.00	per animal		149
Operationa Interact	Operations ir	nterest rate t	imes feed and	other variable expenses	507
Operations Interest		except marketing divided by two.			597
				Total Non-feed	746
				Total Variable Costs	38,655
				Net Expense	30,072

### Replacement Budget

82 Head\*

Feed Costs					Herd Total
	Amount		Per Animal		
	<u>per Year</u>		<u>or Total</u>	Price	
Pasture	150	day	per animal	@ 2.00 per day	24,600
Alfalfa	1500	lbs	per animal	@ 0.08 per lbs	9,225
Prairie Hay	1500	lbs	per animal	@ 0.07 per lbs	7,995
salt and mineral	1095	ounce	per animal	@ 0.03 per ounce	2,525
DDG Cubes	600	lbs	per animal	@ 0.15 per lbs	7,380
				Total Feed Costs	51,725

Breeding Herd Cash Budget

(600 Cows)

Revenue				Herd Total	Per Cow	Per Calf
	Number	Weight	Price	Total		
Weaned Steer Value	279	525	180.00 per cwt	263,655		
Weaned Heifer Value	197	475	160.00 per cwt	149,720		
Cull Cow Sales	70	1,350	64.00 per cwt	60,480		
Replacements Culled	-	-	per cwt			
			Gross Income	473,855	789.76	995.49
Variable Cash Costs				Herd I otal	Per Cow	Per Calf

Breeding Costs	Number		Price	)	Total	Total	Total
Bulls	(This amount is the "Net Expenses" from the "Bulls" tab)					50.12	63.18
Replacements Purchased				\$ per head			
				Animal Purchases	30,072	50.12	63.18
	Amount		Per Animal				
Cow Feed	per Year		or Total	Price	Total	Total	Total
Pasture	150	day	per animal	@ 2.00 per day	180,000	300.00	378.15
Salt and Mineral	1095	ounce	per animal	@ 0.03 per ounce	18,478	30.80	38.82
Prairie Hav	2000		per animal	@ 0.07 per lbs	78,000	130.00	163.87
Corn Stalks	120		per animal	@ 0.58 per day	42,000	70.00	88.24
DDG Cubes	1000	,	per animal	@ 0.15 per lbs	90,000	150.00	189.08
				<b>G</b> • • • • • • • • • •	,		
Replacement Heifer Feed		(From Re	placement Sp	preadsheet)	51,725	86.21	108.67
		`		, Total Feed	460,203	767.01	966.81
				101011000			000.01
Other Variable	Amount		Unit	Allocation	Total	Total	Total
Labor	20		animal	94%	11,334	18.89	23.81
Fuel	20	•	animal	94%	11,334	18.89	23.81
Veterinary and Medical	20		animal	94%	11,334	18.89	23.81
Cull Cow Marketing	25		r animal	-	1,750	2.92	3.68
Cull Replacement Marketing	25	•	animal		.,		
Weaned Calf Marketing	20		animal		9,520	15.87	20.00
AI Expense \$40 per new heifers	3,280		animals	100%	3,280	5.47	6.89
	-				,		
Operations Interest	Calculatio	ns: Operat	tions interest r	ate times feed and	15,166	25.28	31.86
		•		arketing divided by two.			
			I	Total Non-feed	63,717	106.20	133.86
			Tot	al Variable Cash Costs	,	923.32	1,163.85
Fixed Cash Costs					Herd Total	Per Cow	Per Calf
Depreciables Input Costs		Repairs		Allocation	Total	Total	Total
Barn /fencing		2,000		100%	2,000	3.33	4.20
Machinery (Livestock)		2,000		100%	2,000	3.33	4.20
Vehicles		1,200		100%	1,200	2.00	4.20
venicies		1,200		100 %	1,200	2.00	2.52
				Cash Ownership	5,200	8.67	10.92
Overhead and Management		Amount		Allocation	Total	Total	Total
Real Estate Tax*		-					
Annual Insurance Premium		3,000		94%	2,833	4.72	5.95
Professional Fees		1,500		94%	1,417	2.36	2.98
Annual Management Charge Other		-					
		-		Total Overhead	4,250	7.08	8.93
		_		Total Fixed Cash Costs	9,450	15.75	19.85
					0,400	10.15	10.00

Total Cash Costs				563,442	939.07	1,183.70
Net Cash Income				(89,587)	(149.31)	(188.21)
Non-Cash Costs				Herd Total	Per Cow	Per Calf
		Oppor-				
Depreciables Input Costs	<b>Depreciation</b>	tunity	Allocation	Total	Total	Total
Barn /fencing	2,500	3,000	100%	5,500	9.17	11.55
Machinery (Livestock)	9,000	4,500	100%	13,500	22.50	28.36
Vehicles	2,857	1,050	100%	3,907	6.51	8.21
Opportunity	<u>Amount</u>		Allocation			

Real Estate Livestock	28,670	94% 100%	28,670	47.78	60.23
		Total Non-Cash Costs	51,577	85.96	108.35
Total Cash and Non-Cash			Herd Total	Per Cow	Per Calf
		Total Costs	615,019	1,025.03	1,292.06
		Total Net Income	(141,164)	(235.27)	(296.56)

Backgrounded Calves E	Judget		-	Days			
Revenue						Herd Total	Per Calf Sold
	Number	Weight	Price	-		Total	Tota
Steers	273	675	165	\$ / cwt		304,054	1,113.75
Heifers	193	610	158	\$ / cwt		186,013	963.80
				Gross R	evenue	490,067	1,051.65
Variable Cash Costs						Herd Total	Per Calf Sold
	Number	Weight	Price			Total	
Steer Calves Retained	279	525		\$ / cwt		263,655	
Heifer Calves Retained	197	475	160.00	\$ / cwt		149,720	
				Animals Pu	rchased	413,375	887.07
	Amount						
	Fed per		Per Animal	<b>.</b> .			
Feed	Year		or Total	Price	ф. н	Total	Tota
Prairie Hay	900		per animal	0.07	\$ lbs	27,554	59.13
DDG Cubes Salt and Mineral	250		per animal	0.15	\$ lbs	17,663	37.90
Dried Rolled Corn	250 250	ounce Ibs	per animal	0.03 0.10	\$ ounce \$ lbs	3,312 11,354	7.11 24.37
	230	105	per animal	0.10	φius	11,334	24.57
		l		To	tal Feed	59,882	128.50
NonFood		Amount	Pagia	Allocation		Total	Tota
<u>NonFeed</u> Labor		<u>Amount</u> 20	<u>Basis</u> per animal	Allocation 6%		<u>Total</u> 529	<u>Tota</u> 1.13
Fuel		20	per animal	6%		529	1.13
Veterinary and Medical		20	per animal	6%		529	1.13
Marketing Adjustment		25	per animal	070		2,130	4.57
<b>.</b> ,	Calculation		s interest rate	times feed a	and		
Operations Interest			s except mark			5,475	11.75
				•	on-feed	9,191	19.72
			Total V	/ariable Cas		,	
							Per Calf Sold
Fixed Cash Costs						Herd Total	Fel Gall Sold
Depreciables Input Costs							
		Repairs		Allocation		Total	Tota
Machinery (Livestock)		2,000		Allocation		<u>Total</u>	<u>Tota</u>
				<u>Allocation</u>		<u>Total</u>	<u>Tota</u>
Machinery (Livestock)		2,000		<u>Allocation</u>		<u>Total</u>	<u>Tota</u>
Machinery (Livestock)		2,000		Allocation		<u>Total</u>	<u>Tota</u>
Machinery (Livestock)		2,000 1,200	tal Cash Cos		ciables	<u>Total</u>	Tota
Machinery (Livestock) Vehicles		2,000 1,200 <b>To</b>		ts on Depre	ciables		
Machinery (Livestock) Vehicles Overhead and Management		2,000 1,200			ciables	<u>Total</u> 	
Machinery (Livestock) Vehicles <u>Overhead and Management</u> Real Estate Tax*		2,000 1,200 To <u>Amount</u>		ts on Depre <u>Allocation</u>	ciables	Total	Tota
Machinery (Livestock) Vehicles <b>Overhead and Management</b> Real Estate Tax* Annual Insurance Premium		2,000 1,200 To <u>Amount</u> 3,000		ts on Depre <u>Allocation</u> 6%	ciables	<u>Total</u> 167	<u>Tota</u> 0.36
Machinery (Livestock) Vehicles <b>Overhead and Management</b> Real Estate Tax* Annual Insurance Premium Professional Fees		2,000 1,200 To <u>Amount</u>		ts on Depre <u>Allocation</u>	ciables	Total	<u>Tota</u> 0.36
Machinery (Livestock) Vehicles <b>Overhead and Management</b> Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge		2,000 1,200 To <u>Amount</u> 3,000		ts on Depre <u>Allocation</u> 6%	ciables	<u>Total</u> 167	<u>Tota</u> 0.36
Machinery (Livestock) Vehicles <b>Overhead and Management</b> Real Estate Tax* Annual Insurance Premium Professional Fees		2,000 1,200 To <u>Amount</u> 3,000		ts on Depre <u>Allocation</u> 6% 6%		<u>Total</u> 167 83	<u>Tota</u> 0.36 0.18
Machinery (Livestock) Vehicles <b>Overhead and Management</b> Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge		2,000 1,200 To <u>Amount</u> 3,000	Total Overh	ts on Depre <u>Allocation</u> 6% 6% ead and Ow	vnership	<u>Total</u> 167 83 <b>250</b>	<u>Tota</u> 0.36 0.18 <b>0.54</b>
Machinery (Livestock) Vehicles <b>Overhead and Management</b> Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge		2,000 1,200 To <u>Amount</u> 3,000	Total Overh	ts on Depre <u>Allocation</u> 6% 6% ead and Ow al Fixed Cas	nership h Costs	<u>Total</u> 167 83 <b>250</b> <b>250</b>	<u>Tota</u> 0.36 0.18 0.54
Machinery (Livestock) Vehicles <b>Overhead and Management</b> Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge		2,000 1,200 To <u>Amount</u> 3,000	Total Overh	ts on Depre <u>Allocation</u> 6% 6% ead and Ow	nership h Costs	<u>Total</u> 167 83 <b>250</b> <b>250</b>	<u>Tota</u> 0.36 0.18 0.54
Machinery (Livestock) Vehicles <b>Overhead and Management</b> Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge		2,000 1,200 To <u>Amount</u> 3,000	Total Overh	ts on Depre <u>Allocation</u> 6% 6% ead and Ow al Fixed Cas	nership h Costs h Costs	<u>Total</u> 167 83 <b>250</b> <b>250</b> <b>482,698</b>	<u>Tota</u> 0.36 0.18 0.54 1,035.83
Machinery (Livestock) Vehicles <b>Overhead and Management</b> Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge		2,000 1,200 To <u>Amount</u> 3,000	Total Overh	ts on Depre <u>Allocation</u> 6% 6% eead and Ow al Fixed Cas Total Cas	nership h Costs h Costs	<u>Total</u> 167 83 <b>250</b> <b>250</b> <b>482,698</b>	<u>Tota</u> 0.36 0.18 0.54 1,035.83
Machinery (Livestock) Vehicles <b>Overhead and Management</b> Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge Other		2,000 1,200 To <u>Amount</u> 3,000	Total Overh	ts on Depre <u>Allocation</u> 6% 6% eead and Ow al Fixed Cas Total Cas	nership h Costs h Costs	<u>Total</u> 167 83 <b>250</b> <b>250</b> <b>482,698</b>	<u>Tota</u> 0.36 0.18 0.54 1,035.83 15.81
Machinery (Livestock) Vehicles <b>Overhead and Management</b> Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge		2,000 1,200 To <u>Amount</u> 3,000	Total Overh	ts on Depre <u>Allocation</u> 6% 6% eead and Ow al Fixed Cas Total Cas	nership h Costs h Costs	<u>Total</u> 167 83 250 250 482,698 7,369	<u>Tota</u> 0.36 0.18 0.54 1,035.83 15.81
Machinery (Livestock) Vehicles Overhead and Management Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge Other Non-Cash Costs		2,000 1,200 To <u>Amount</u> 3,000	Total Overh Tota	ts on Depre <u>Allocation</u> 6% 6% eead and Ow al Fixed Cas Total Cas	nership h Costs h Costs	<u>Total</u> 167 83 250 250 482,698 7,369	<u>Tota</u> 0.36 0.18 0.54 1,035.83 15.81 Per Calf Sold
Machinery (Livestock) Vehicles Overhead and Management Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge Other Non-Cash Costs Depreciable Assets		2,000 1,200 <b>To</b> <u>Amount</u> 3,000 1,500	Total Overh Tota	ts on Depre <u>Allocation</u> 6% 6% ead and Ow al Fixed Cas Total Cas Net Cash	nership h Costs h Costs	Total 167 83 250 250 482,698 482,698 7,369	<u>Tota</u> 0.36 0.18 0.54 1,035.83 15.81 Per Calf Sold
Machinery (Livestock) Vehicles <b>Overhead and Management</b> Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge Other		2,000 1,200 To <u>Amount</u> 3,000 1,500	Total Overh Tota Oppor- <u>tunity</u>	ts on Depre <u>Allocation</u> 6% 6% ead and Ow al Fixed Cas Total Cas Net Cash	nership h Costs h Costs	Total 167 83 250 250 482,698 482,698 7,369	<u>Tota</u> 0.36 0.18 0.54 1,035.83 15.81 Per Calf Sold
Machinery (Livestock) Vehicles Overhead and Management Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge Other Non-Cash Costs Depreciable Assets Machinery (Livestock)		2,000 1,200 To <u>Amount</u> 3,000 1,500 Depreciation 9,000	Total Overh Tota Oppor- tunity 4,500	ts on Depre <u>Allocation</u> 6% 6% ead and Ow al Fixed Cas Total Cas Net Cash	nership h Costs h Costs	Total 167 83 250 250 482,698 482,698 7,369	<u>Tota</u> 0.36 0.18 0.54 1,035.83 15.81 Per Calf Sold
Machinery (Livestock) Vehicles Overhead and Management Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge Other Non-Cash Costs Depreciable Assets Machinery (Livestock) Vehicles		2,000 1,200 To <u>Amount</u> 3,000 1,500 Depreciation 9,000	Total Overh Tota Oppor- tunity 4,500	ts on Depre <u>Allocation</u> 6% 6% ead and Ow al Fixed Cas Total Cas Net Cash	nership h Costs h Costs	Total 167 83 250 250 482,698 482,698 7,369	<u>Tota</u> 0.36 0.18 0.54 1,035.83 15.81 Per Calf Sold
Machinery (Livestock) Vehicles Overhead and Management Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge Other Non-Cash Costs Depreciable Assets Machinery (Livestock)		2,000 1,200 To <u>Amount</u> 3,000 1,500 Depreciation 9,000	Total Overh Tota Oppor- <u>tunity</u> 4,500 1,050	ts on Depre Allocation 6% 6% ead and Ow al Fixed Cas Total Cas Net Cash <u>Allocation</u>	nership h Costs h Costs Income	Total 167 83 250 250 482,698 482,698 7,369	<u>Tota</u> 0.36 0.18 0.54 1,035.83 15.81 Per Calf Sold
Machinery (Livestock) Vehicles Overhead and Management Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge Other Non-Cash Costs Depreciable Assets Machinery (Livestock) Vehicles		2,000 1,200 To <u>Amount</u> 3,000 1,500 Depreciation 9,000	Total Overh Tota Oppor- tunity 4,500 1,050	ts on Depre <u>Allocation</u> 6% 6% ead and Ow al Fixed Cas Total Cas Net Cash	nership h Costs h Costs Income	Total 167 83 250 250 482,698 482,698 7,369	Tota 0.36 0.18 0.54 1,035.83 15.81 Per Calf Sold
Machinery (Livestock) Vehicles Overhead and Management Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge Other Non-Cash Costs Depreciable Assets Machinery (Livestock) Vehicles Real Estate		2,000 1,200 To <u>Amount</u> 3,000 1,500 Depreciation 9,000	Total Overh Tota Oppor- tunity 4,500 1,050	ts on Depre Allocation 6% 6% ead and Ow al Fixed Cas Total Cas Net Cash <u>Allocation</u>	nership h Costs h Costs Income	Total 167 83 250 250 482,698 7,369 Herd Total <u>Total</u>	Tota 0.36 0.18 0.54 0.54 1,035.83 15.81 Per Calf Solo <u>Tota</u>
Machinery (Livestock) Vehicles Overhead and Management Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge Other Non-Cash Costs Depreciable Assets Machinery (Livestock) Vehicles		2,000 1,200 To <u>Amount</u> 3,000 1,500 Depreciation 9,000	Total Overh Tota Oppor- tunity 4,500 1,050	ts on Depre Allocation 6% ead and Ow al Fixed Cas Total Cas Net Cash <u>Allocation</u>	nership h Costs h Costs Income	Total 167 83 250 250 482,698 Herd Total <u>Total</u> Herd Total	0.18 0.54 1,035.83 15.81 Per Calf Sold <u>Total</u>
Machinery (Livestock) Vehicles Overhead and Management Real Estate Tax* Annual Insurance Premium Professional Fees Annual Management Charge Other Non-Cash Costs Depreciable Assets Machinery (Livestock) Vehicles Real Estate		2,000 1,200 To <u>Amount</u> 3,000 1,500 Depreciation 9,000	Total Overh Tota Oppor- tunity 4,500 1,050	ts on Depre Allocation 6% ead and Ow al Fixed Cas Total Cas Net Cash <u>Allocation</u>	h Costs h Costs Income h Costs	Total 167 83 250 250 482,698 Herd Total <u>Total</u> Herd Total 482,698	Tota 0.36 0.18 0.54 0.54 1,035.83 15.81 Per Calf Solo Tota Per Calf Solo 1,035.83

System Budget		600 cow herd -	Central Nebraska, Sept. 2021	
Revenue	Number	Weight	Price	Herd Total Total
Weaned Steers	<u>Itumber</u>	weight		<u>10tur</u>
Weaned Heifers Backgrounded Steers	273	675	165 \$ / cwt	304,054
Backgrounded Heifers	193	610		186,013
Stocker Steers Stocker Heifers				
Fed Steers				
Fed Heifers Cull Cow Sales	70	1,350	64 \$ / cwt	60,480
Fed Cull Cow Sales	70	1,350	04 \$7 CWI	00,400
Cull Bull Sales	6	1,700	85 \$ / cwt	8,583
Cull Replacement Sales				
			Gross Income	559,130
Variable Costs				Herd Total
Animal Purchases	<u>Number</u>	Price		<u>Total</u>
Replacement Females Bulls	6.0	3 000	\$ per head \$ per head	18,000
Duils	0.0	3,000	Total Animals Purchased	
<u>Feed</u>	<u>Amount</u>		Price	<u>Total</u>
Pasture	706.00	5 months @	300.00 per 5 months	211,800
Prairie Hay	936.45	ton @	130.00 per ton	121,739
Alfalfa DDG Cubes	61.50 390.68	ton @ ton @	150.00 per ton 300.00 per ton	9,225 117,203
Salt and Mineral	27.84	ton @	900.00 per ton	25,054
Corn Stalks Dried Rolled Corn	2,400.00 2,402.68	month @ bu @	17.50 per month 5.40 per bu	42,000 12,974
	2,102.00			12,011
			Total Feed	539,995
Other Variable				Total
Labor Fuel				11,862 11,862
Veterinary and Medical				11,862
Cull Cow Marketing				1,750
Cull Bull Marketing Cull Replacement Marketing				149
Weaned Calf Marketing				9,520
Backgrounded Calf Marketing -Ad Stocker Marketing				2,130
Feedlot Marketing				
AI Expense \$40 per new heifers				3,280
• •				1 I

Operations Interest	Calculations: Operations interest rate times feed and other variable expenses except marketing divided by two.	21,238
	Total Other	73,654
	Total Variable Costs	631,648
Fixed Cash Costs		Herd Total
Depreciables Input Costs	Repairs	Total
Barn /fencing Machinery (Livestock)	2000 2000	2,000 2,000
Vehicles	1200	1,200
	Total Ownership	5,200
Overhead and Management	l r	Total
Real Estate Tax		<u>- 10tui</u>
Insurance		3,000
Professional Fees Management		1,500
Other		
	Total Overhead	4,500
	Total Fixed Cash Costs	9,700
	Total Cash Costs	641,348
	Net Cash Income	(92.249)
	Net Cash income	(82,218)
Non-Cash Costs		Herd Total
Depreciables Costs	Depre- <u>ciation</u> <u>Opportunity</u>	<u>Total</u>
Barn /fencing Machinery (Livestock)	2,500 3,000 9,000 4,500	5,500 13,500
Vehicles	2,857 1,050	3,907
		- ,
Opportunity	Investment retations and estate value	
Real Estate Opportunity Livestock	Investment rate times real estate value Investment rate times livestock value	28,670
	Total Non-Cash Costs	51,577
<b>Total Cash and Non-Cash</b>		Herd Total
	Total Costs	692,925
	Net Total Income	(133,795)